

FIG. 1

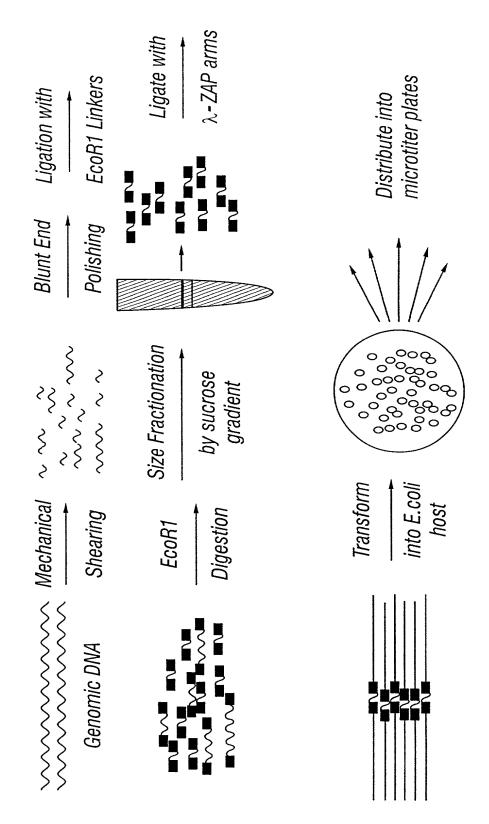


FIG. 2

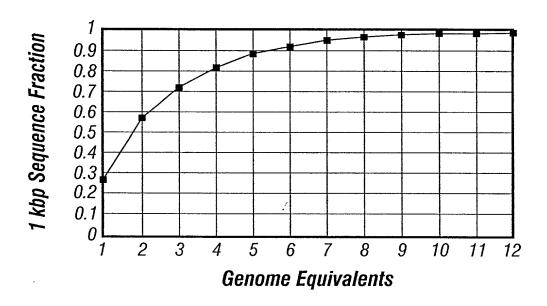


FIG. 3

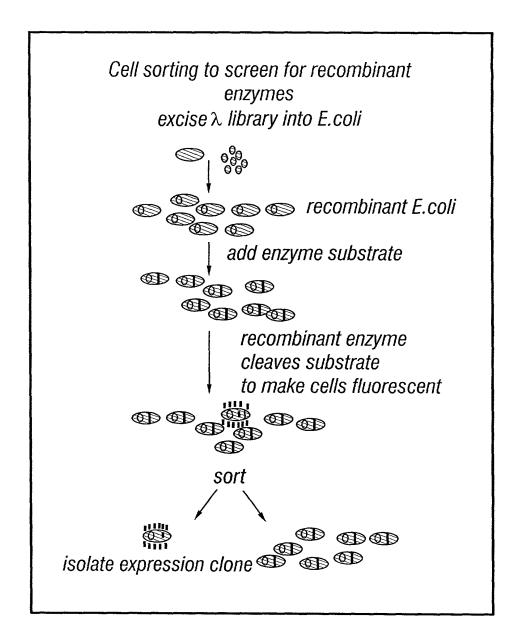


FIG. 4

## $\beta$ -Gal clone with different substrates

- cells were stained with FDG, CMFDG or C12FDG, incubated for 30 min. at 70°C, spotted onto a slide and exposed to UV light.
- bright spot indicates staining of cells



FDG

C12FDG

**CMFDG** 

FIG. 5

## *6/16*

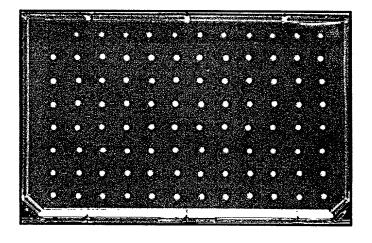


FIG. 6

$$R_1$$
 0 -Flour.  $H_2\bar{0}$   $R_1$  0 - + -0-Flour -

FIG. 7

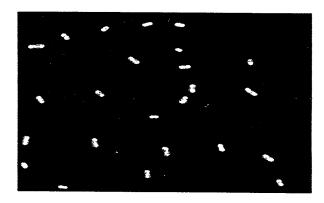
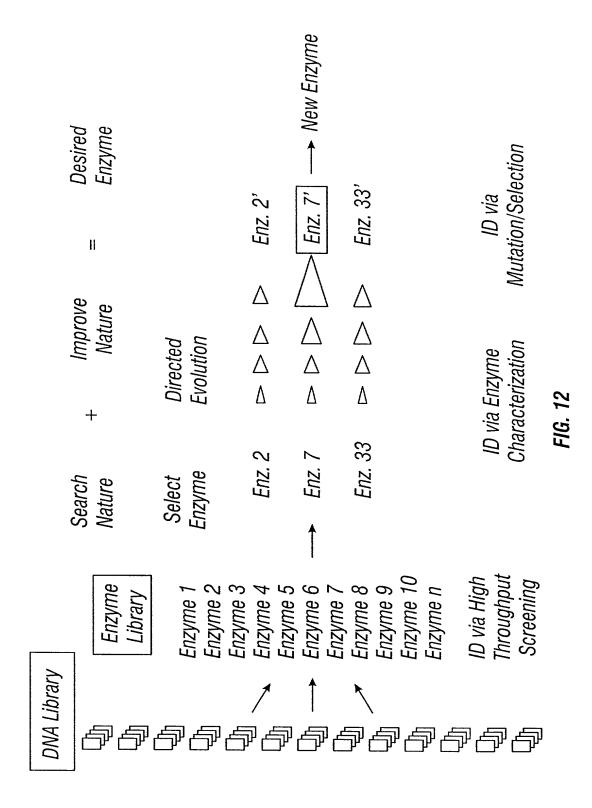


FIG. 8

H<sub>3</sub>C(H<sub>2</sub>C) 
$$\stackrel{O}{\longrightarrow}$$
  $\stackrel{O}{\longrightarrow}$   $\stackrel$ 

$$H_2N \longrightarrow MH_2 + H_2N \longrightarrow MH_2 +$$



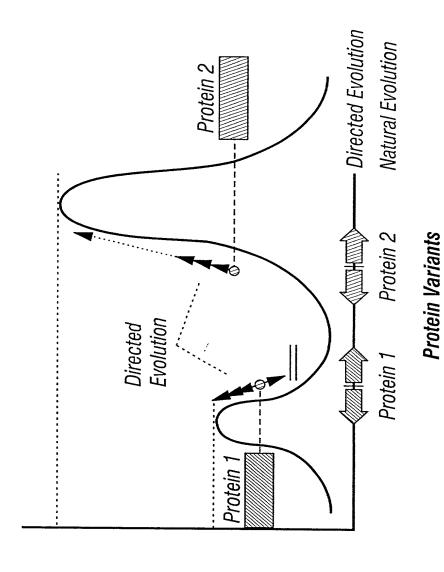


FIG. 13

Process Compatibility

• Buffer Compatibility

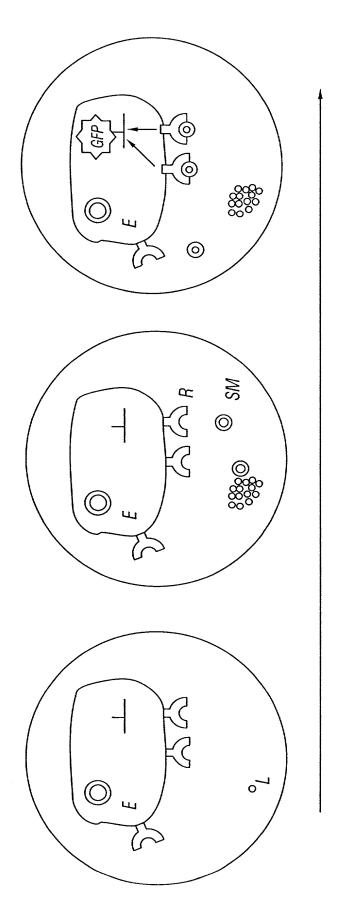
• Expression Level

Solvent Stability

• T Stability

Enzyme Activity

ЯеІатіче



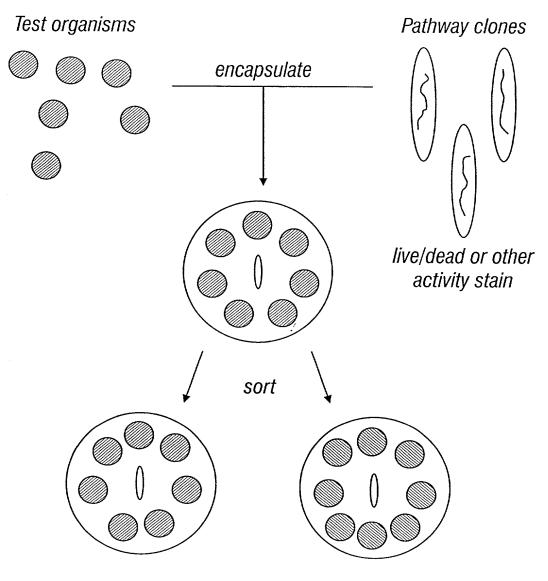
Receptor binding of small molecule & GFP reporting SM=Small molecule of small molecule from host

Growth and expression

Co-encapsulation Library + Eukaryote

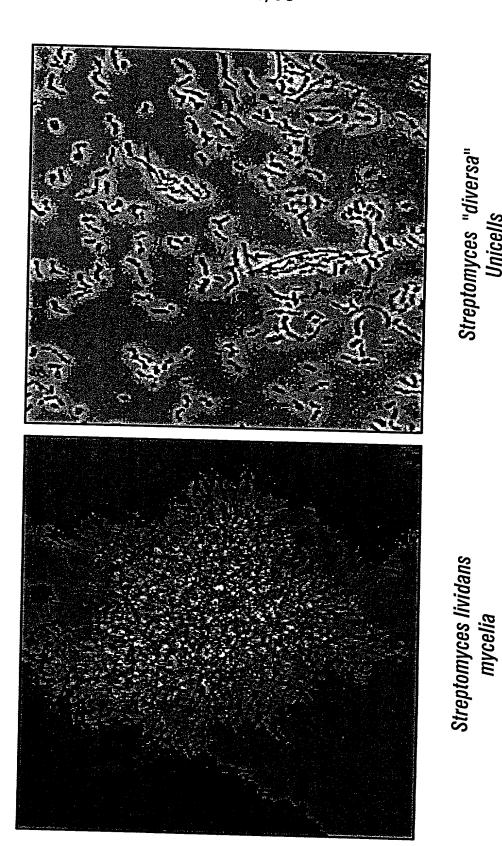
R=Eukaryotic receptor L=Large insert library GFP= Green fluorescent protein E=Eukaryotic assay organism

FIG. 14



bioactive expression (e.g. live/dead, groth rate, metabolic stains etc.)

FIG. 15



Streptomyces "diversa" Unicells

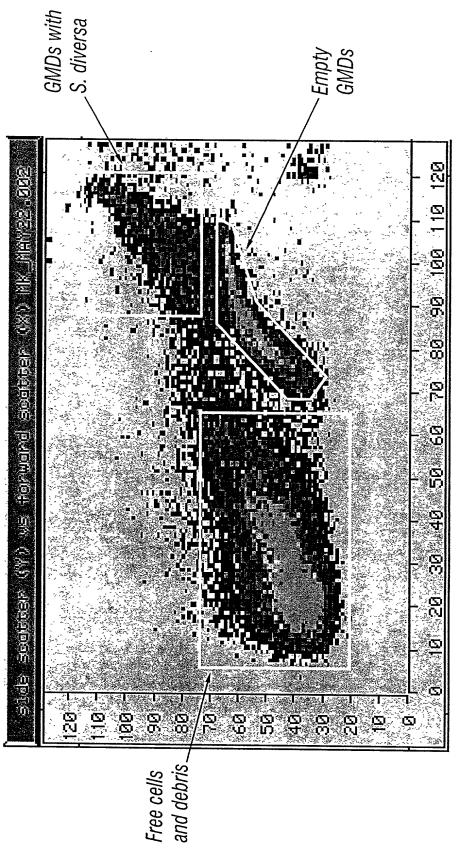


FIG. 1

